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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,151	10/07/2005	Vittorio Patrono	5722	9157
	7590 01/16/2008 AND MATTARE, LT	EXAMINER		
10 POST OFFICE ROAD - SUITE 110 SILVER SPRING, MD 20910			TRIEU, THAI BA	
SILVER SPRIN	G, MD 20910		ART UNIT	PAPER NUMBER
			3748	
			MAIL DATE	DELIVERY MODE
			01/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/552,151	PATRONO, VITTORIO
	Office Action Summary	Examiner	Art Unit
		Thai-Ba Trieu	3748
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence address
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status			
2a)□	Responsive to communication(s) filed on <u>06 Not</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr	
Dispositi	ion of Claims		
5)□ 6)⊠ 7)⊠ 8)□	Claim(s) 17-28 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 17-20,26 and 27 is/are rejected. Claim(s) 21-25 and 28 is/are objected to. Claim(s) are subject to restriction and/or ion Papers	vn from consideration.	
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accelerate accelerate any not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).
·	ınder 35 U.S.C. § 119		
12) [] a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicat ity documents have been receiv i (PCT Rule 17.2(a)).	tion No red in this National Stage
2) Notic 3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal D 6) Other:	Pate

DETAILED ACTION

This Office action is in response to the amendment filed on November 08, 2007.

Applicant's cooperation in correcting the informalities in the drawing and specification is appreciated.

Claims 1-16 were cancelled; claims 17-18, 20, 26, and 28 were amended.

In view of newly discovery prior art, the indicated allowable subject matter of claims 17-19, 21-25, and 28 has been withdrawn. A new Non-Final rejection set forth below.

Specification

The disclosure is objected to because of the following informalities:

In the Brief Description of the Drawings, each figure of the drawings should be labeled/numbered with -- Figure 5a - or - FIG. 5a --; -- Figure 5b - or - FIG. 5b --; -- Figure 6a - or - FIG. 5a --; -- Figure 6b - or - FIG. 6b --; -- Figure 6c - or - FIG. 6c --; -- Figures 5a -5b - or - FIG. 5a-5b --; -- Figure 6a-6c - or - FIG. 6a-6c -- etc...

Applicant is required to provide a brief description for each figure, such as a brief description for Figure 5a, a brief description for Figure 5b, a brief description for Figure 6a, a brief description for Figure 6b, a brief description for Figure 6c, etc...

Appropriate correction is required.

Applicant should provide a marked-up copy and a clean copy of the whole specification, since in the original application filed on October 07, 2005, there appears no indicated/numbered paragraphs as being used in the amendments to the specification filed on November 06, 2007.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chauville (Pub. Number FR 23 24 870 A), in view of Kehl (Patent Number 3,311,094).

Chauville discloses an internal combustion rotary engine comprising
an external rotor (2) mounted for rotation about a first axis (o') and
an internal rotor (1) within the external rotor (2), mounted for rotation about a
second axis (o) offset from the first axis (o'),

said rotors (1, 2) being mutually restrained and synchronized by synchronization gear wheels (pinions A, B, B', C, C', D) disposed in a common housing so that the rotors rotate in the same direction and at the same rotational speed on their respective axes (See Fgires1-2);

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wherein the external rotor (2) contains a timing system (52, 53, 54, 55, and 56), discharge valves (7), and spark plugs (6), thereby functioning as a head (See Figures 1-2, 8-10, and 18; Page 1, lines 23-40, Pages 2-7, lines 1-40, and Page 8, lines 1-35);

means to deviate gases (combustion gases) to a tangential direction in the discharge valves, thereby generating a torque on the rotors so as to cause a second thrust level on the axis (See Figure 1);

a nozzle (8) immediately downstream of each discharge valve (7), adapted to generate further level tangential thrust by rapid and additional internal expansion of overheated gases deviated in the discharge valve, so as to produce a further torque on the rotor system (See Figure 1).

Chauville further discloses intake valves (4); however, Chauville fails to disclose the location of the intake valves being on the external rotor as being claimed.

Kehl teaches that it is conventional in the rotary engine art, to dispose the intake valves at the top and bottom of the external rotor (See Column 6, lines 57-67).

It would has been obvious to one having ordinary skill in the art at that time the invention was made, to have positioned/disposed the intake valves at the top and bottom of the external rotor, as taught Kehl, to improve the efficiency of the Chauville device.

Additionally, it is the examiner's position that the positioning of the intake valve on the outer rotor in the above claimed positions would have been obvious to one having ordinary skill in the art. More specifically, one having ordinary skill in the art would have positioned the intake valves on the outer rotor, since the intake valves

would have performed equally well in that location and the mere repositioning of parts not effecting the functioning of the device involves only routine skill in the art, In re Japikse, 86 USPQ 70.

Note that the recitation of "adapted to generate further level tangential thrust by rapid and additional internal expansion of overheated gases deviated in the discharge valve, so as to produce a further torque on the rotor system" is considered as the functional language. The Chauville device discloses all the structural components of an engine system, which are read on those of the instant invention. Therefore, the Chauville system is capable of performing the same desired functions as the instant invention having been claimed in claim 1.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chauville (Pub. Number FR 23 245 870 A), in view of Kehl (Patent Number 3,311,094), and further in view of Blanchard (Pub. Number 3, 955, 540).

The modified Chauville discloses the invention as recited above, and further disclose a fuel system (412, 416); however, fails to disclose an injector pump, fuel injectors, and their location.

Blanchard teaches that it is conventional in the rotary internal combustion art, to utilize an injection pump (49) and fuel injectors (10) (See Figures 1-4); however Blanchard fails to disclose an injection pump and fuel injectors locating the internal rotor.

It is the examiner's position that the positioning of an injection pump and fuel injectors in the above claimed positions would have been obvious to one having ordinary skill in the art. More specifically, one having ordinary skill in the art would have positioned an injection pump and fuel injectors in the internal rotor. The use of an injection pump and fuel injectors being located in the internal rotor would have provide a compact arrangement for the modified Chauville device.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chauville (Pub. Number FR 23 245 870 A), in view of Kehl (Patent Number 3,311,094), and further in view of Osigwe Godwin Okey et al. (Pub. Number GB 2322913 A).

The modified Chauville device discloses the invention as recited above, and further discloses three vanes (3). However, fails to disclose four vanes and its structural details.

Osigwe Godwin Okey teaches that it is conventional in the rotary machine art, to utilize four mobile elements (6) mounted on the internal rotor (2), said elements comprising a planet member (6) mounted on the internal rotor (2), which is reciprocated and pushed outwards by a central spring (31), and a satellite member (8a) of a curved shape, fixed at the end of the planet and oscillating around its axis, adapted to act as a compression ring continuously fitting to the inner surface of the external rotor (12) (See Figure 3).

It would has been obvious to one having ordinary skill in the art at that time the invention was made, to have utilized four vanes and its structural details, as taught by Osigwe Godwin Okey, to improve the efficiency of the modified Chauville device.

Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chauville (Pub. Number FR 23 245 870 A), in view of Kehl (Patent Number 3,311,094) and Osigwe Godwin Okey et al. (Pub. Number GB 2322913 A), further in view of Burcur (Patent Number 5,674,059).

The modified Chauville device discloses the invention as recited above; however, fails to disclose a stationary seal the internal and external rotors and its structural details.

Burcur teaches that it is conventional in the rotary machine art, to utilize two rotor vanes (90a, 90b); a stationary seal (Not Numbered) between the internal and external rotors, said seal comprising compression rings mounted on the curved convex faces of the internal rotor and on the planet in addition to the satellite rubbing contact (See Figures 1B, Column 1, lines 15-22, Column 9, lines 57-67, Column 10, lines 1-2).

It would has been obvious to one having ordinary skill in the art at that time the invention was made, to have utilized a stationary seal the internal and external rotors and its structural details, as taught by Burcur, to improve the efficiency of the modified Chauville device,

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Allowable Subject Matter

Claims 21-25 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

1. Priority:

The applicant's arguments, set forth on Page 14, on the Priority document is persuasive; therefore, applicant is not required to submit it.

2. Information disclosure Statement:

The four foreign patents, cited in the international Search Report, were considered by the examiner, and recited in the Notice of References Cited mailed on May 21, 2007. Additionally, each copy of the four foreign patents were provided and mailed to the applicant on May 21, 2007.

3. Drawings:

The drawings filed on October 22, 2007 are approved to enter.

4. Specification:

The specification filed on November 06, 2007 is not approved for entry.

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Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai-Ba Trieu whose telephone number is (571) 272-4867. The examiner can normally be reached on Monday - Thursday (6:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on (571) 272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TTB December 18, 2007

Thai-Ba Trieu Primary Examiner Art Unit 3748

REPLACEMENT SHEET

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APPROVED: /TTB/ 12/18/2007

